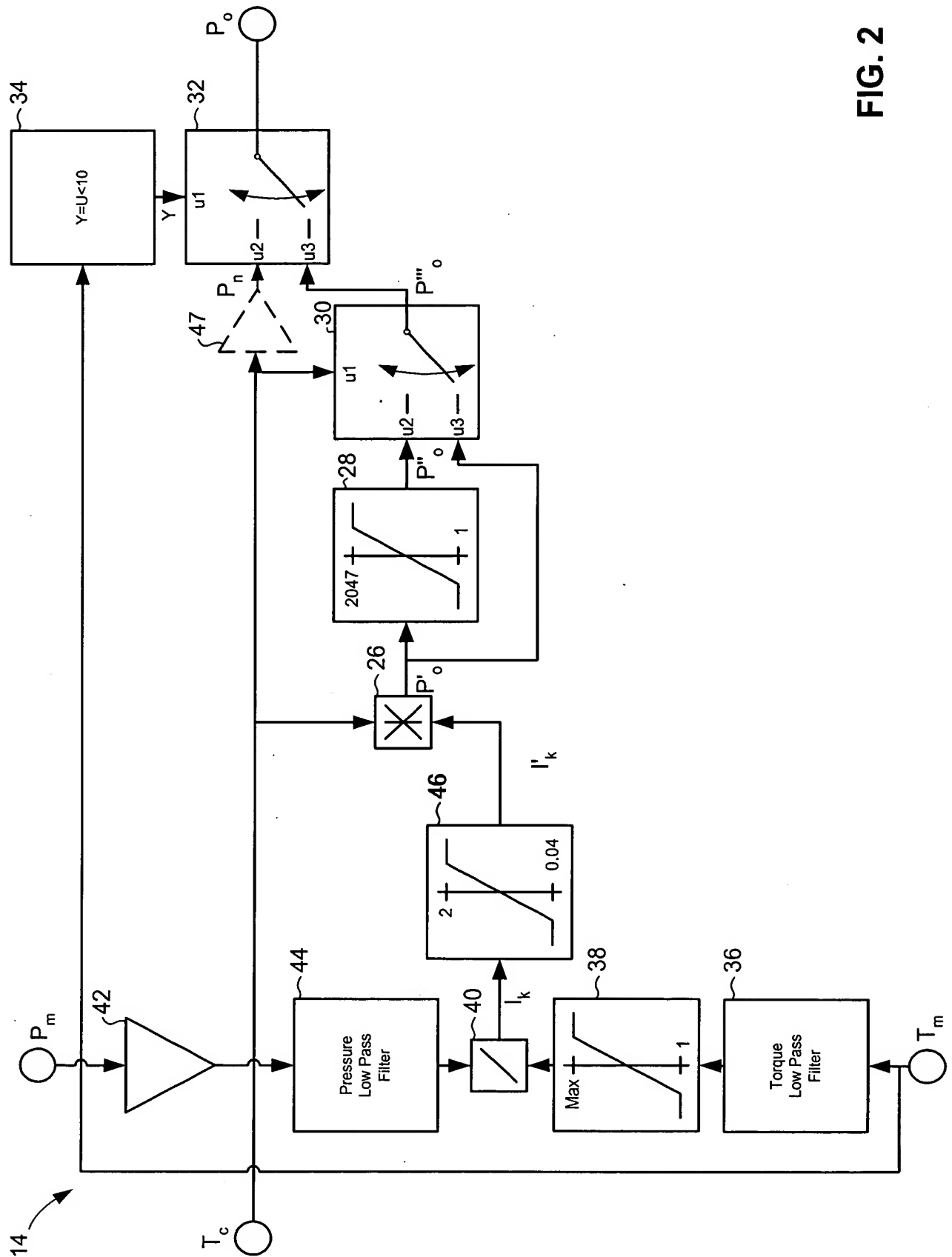
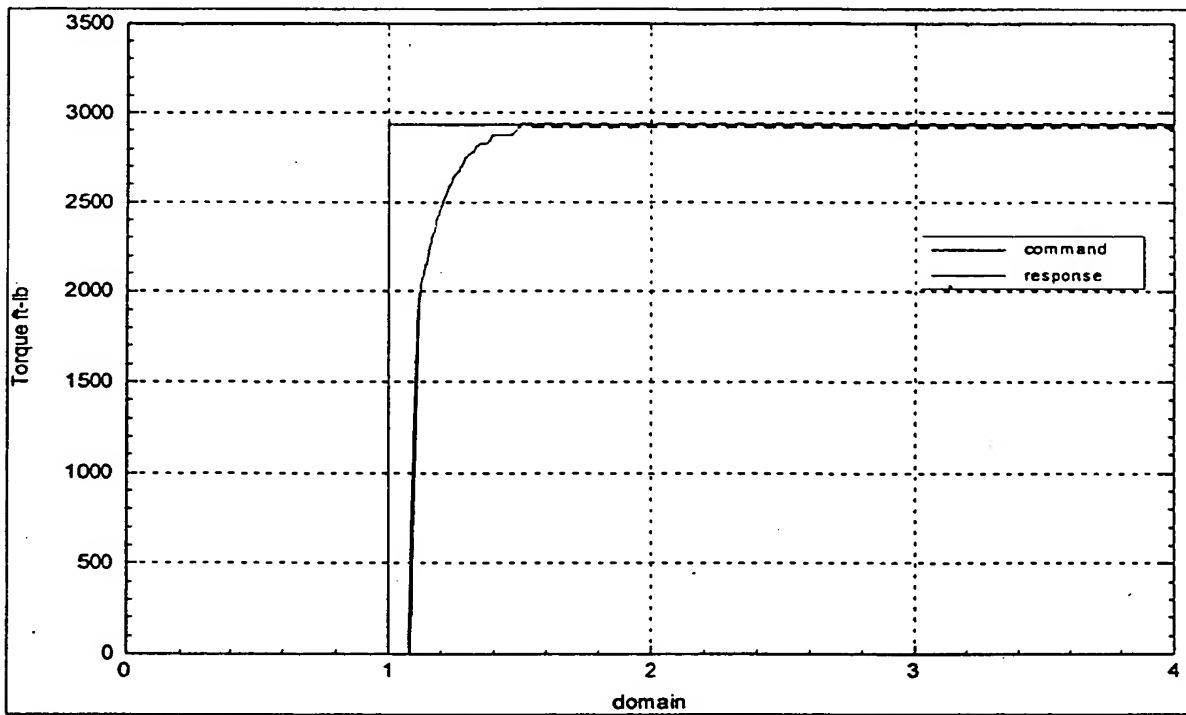


FIG. 1



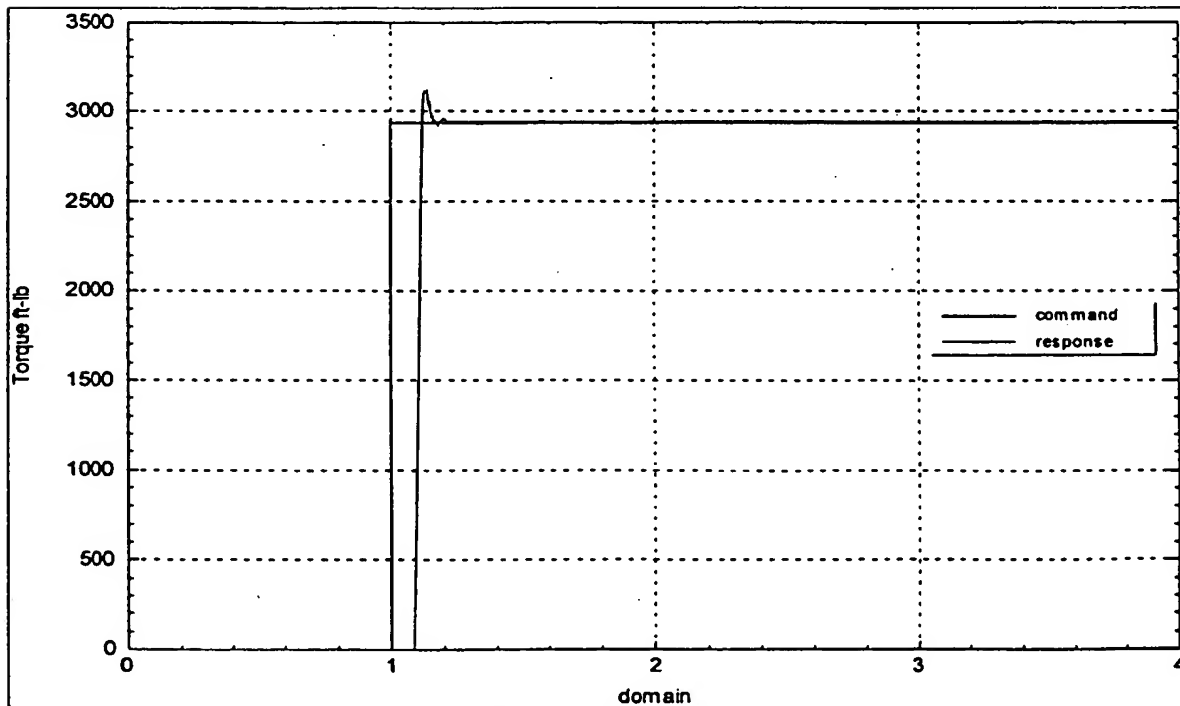
Step Input, Constant Brake Gain, No Brake Friction Dynamics



PRIOR ART

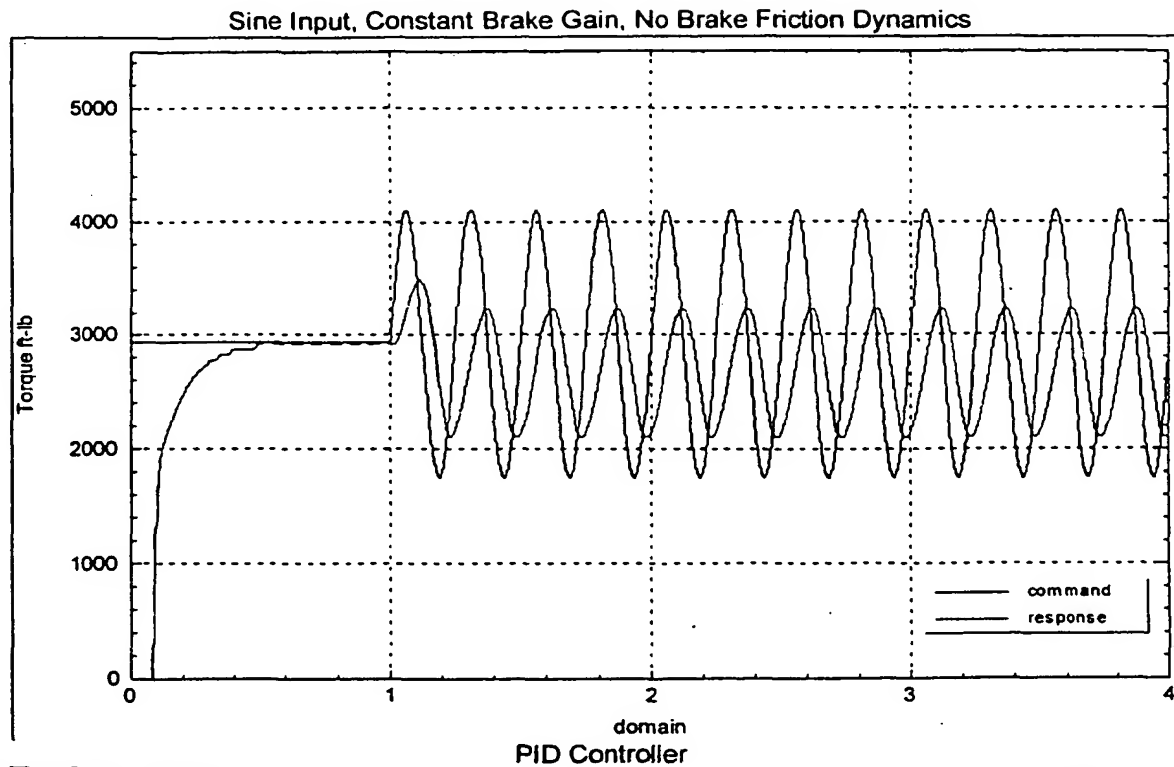
PID Controller

FIG. 3



Brake Gain Controller

FIG. 4



PRIOR ART

FIG. 5

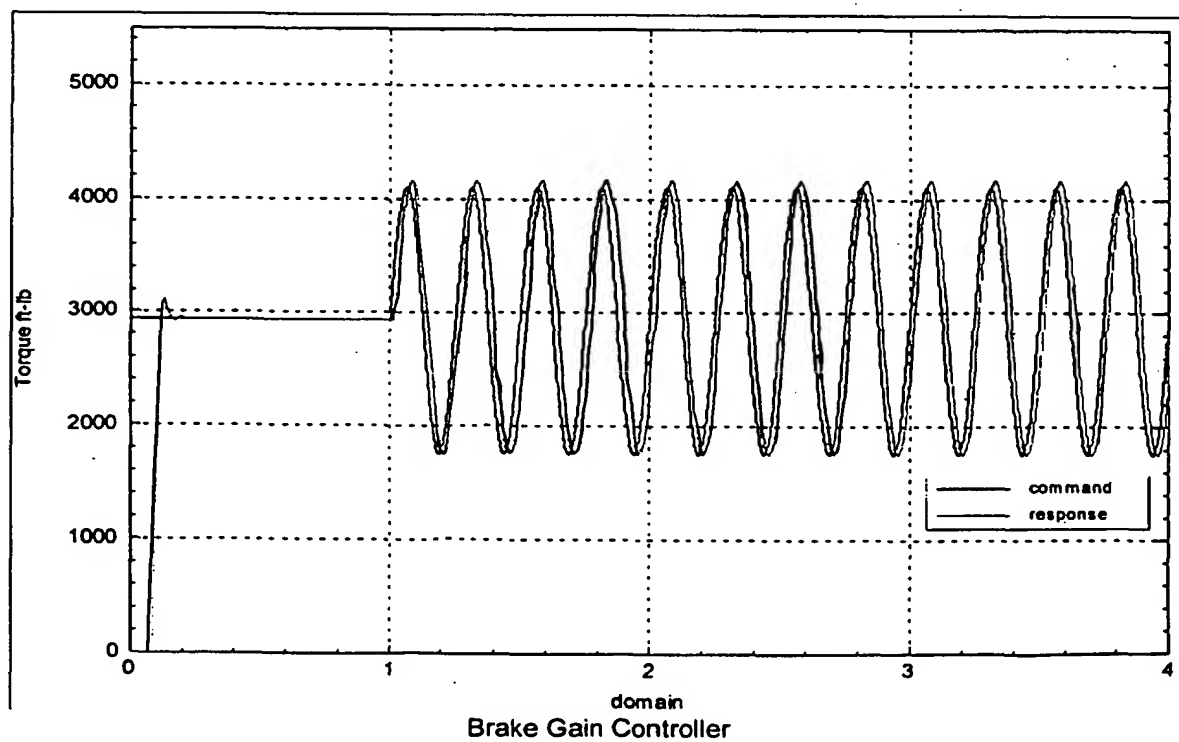
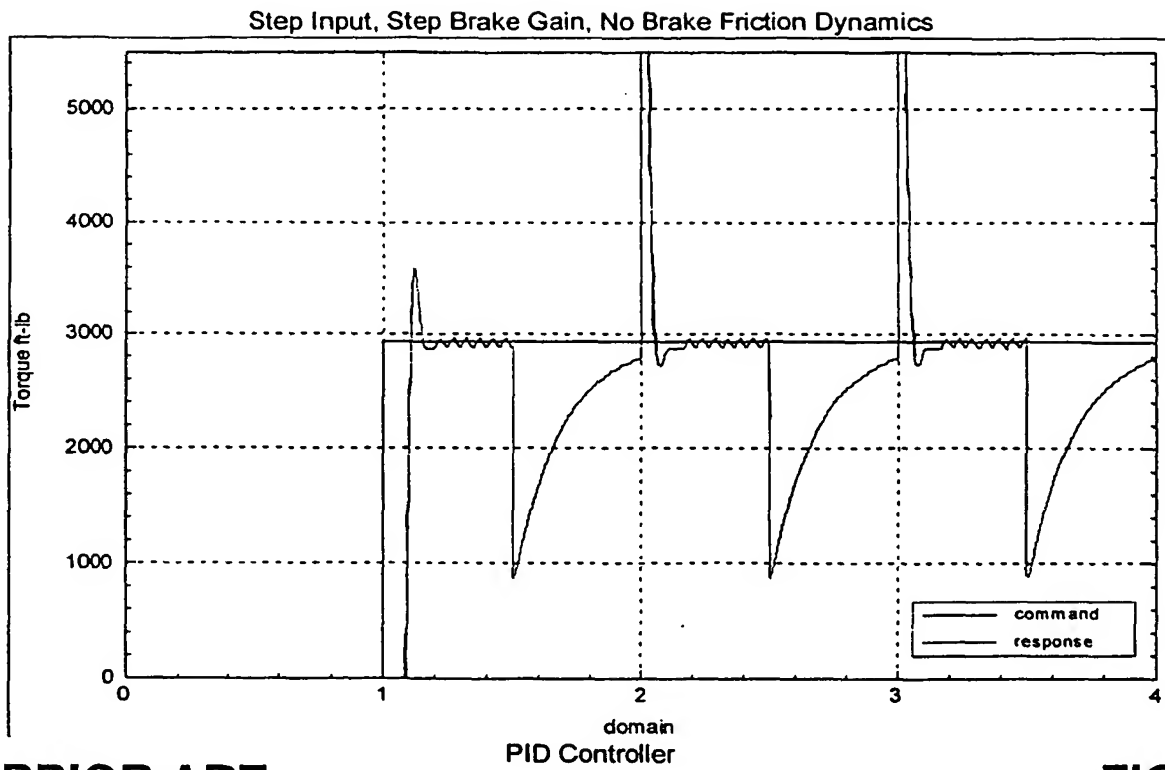


FIG. 6



PRIOR ART

FIG. 7

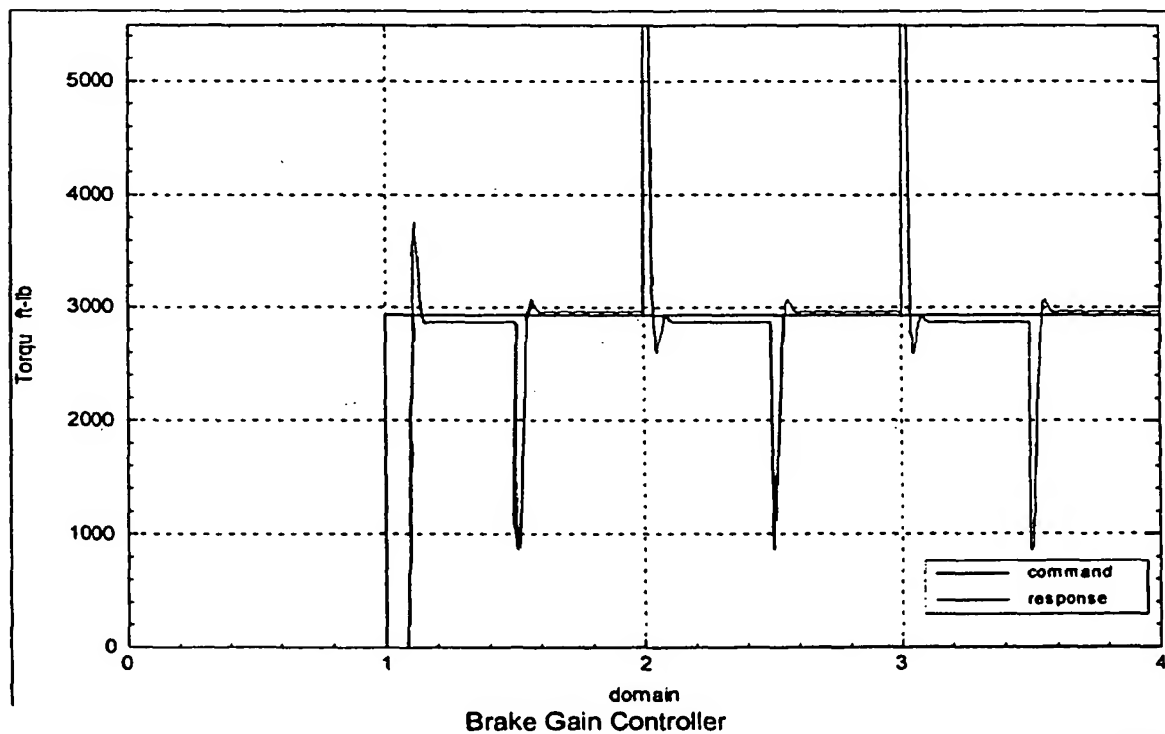
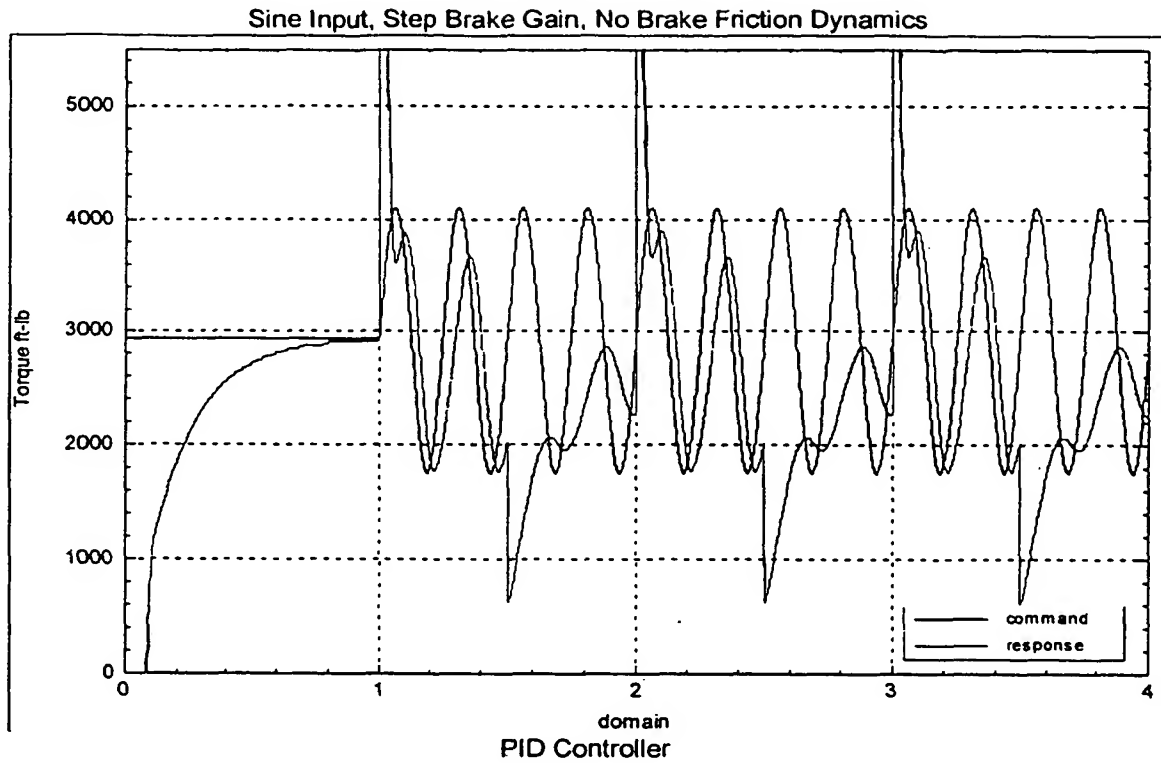


FIG. 8



PRIOR ART

FIG. 9

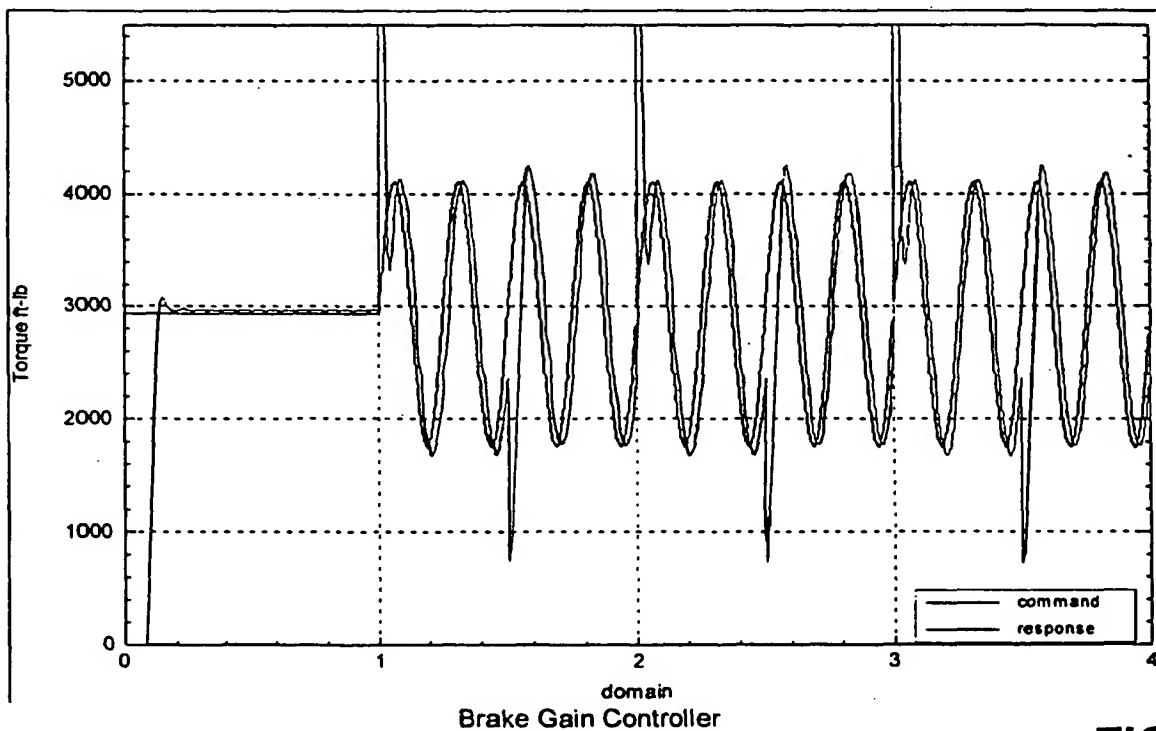
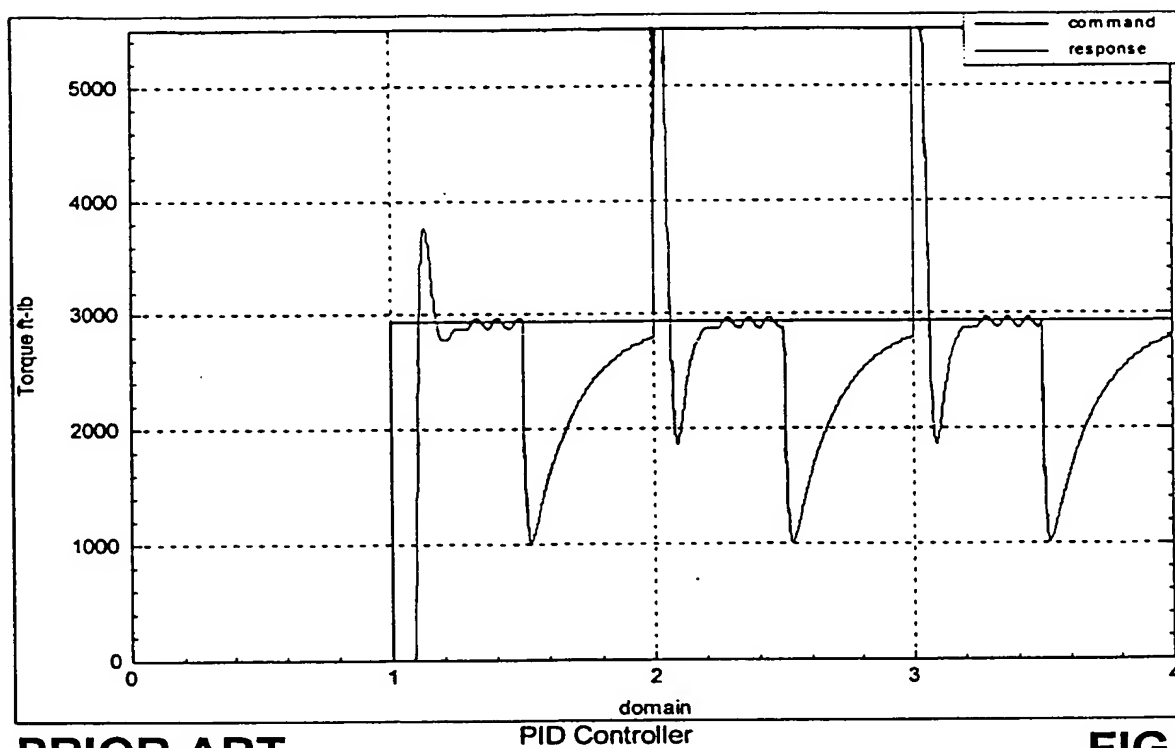


FIG. 10

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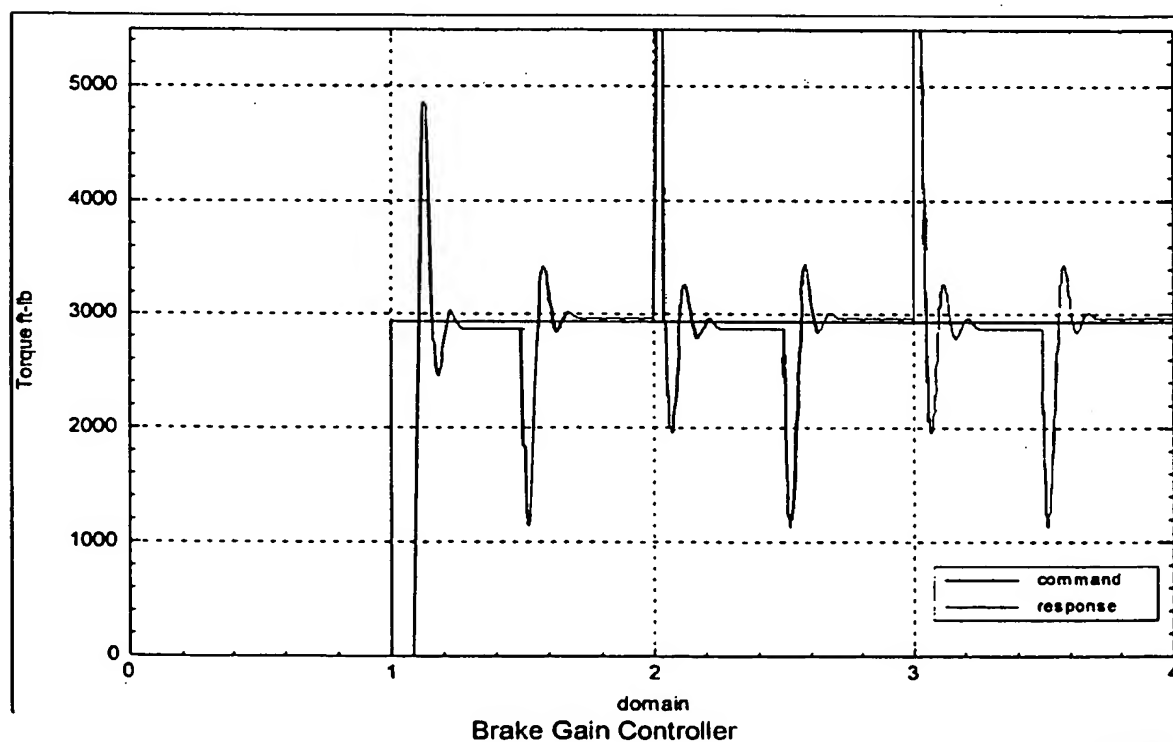
Step Input, Step Brake Gain, Brake Friction Dynamics On



PRIOR ART

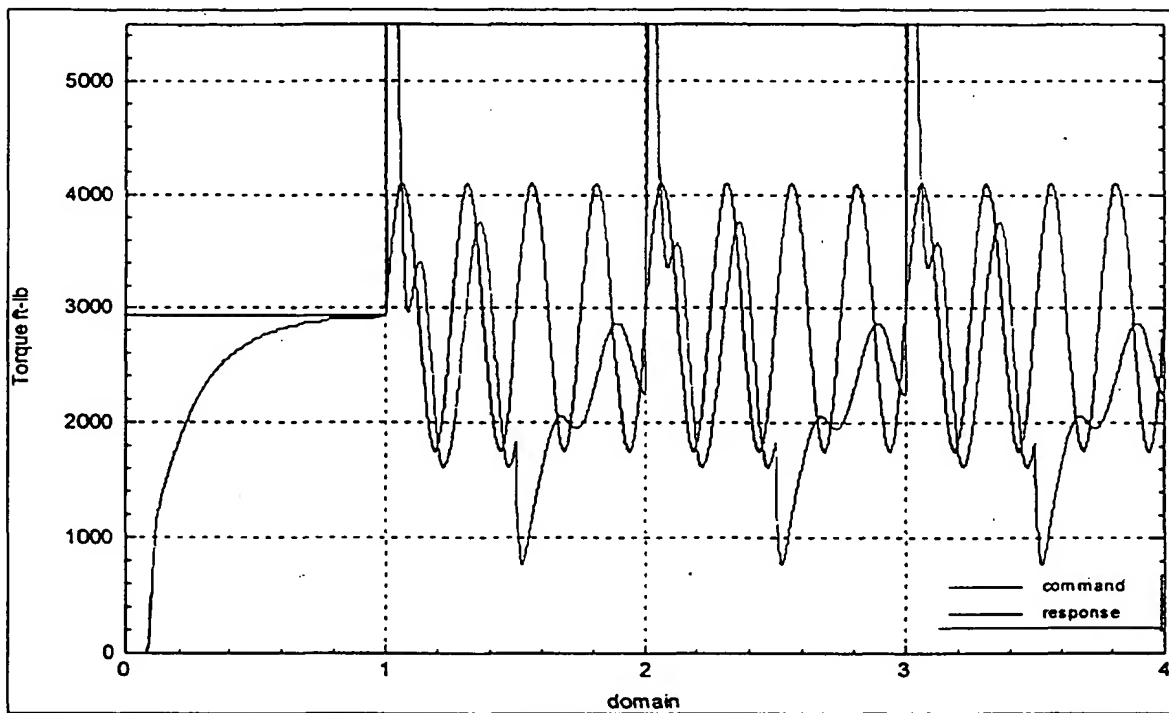
PID Controller

FIG. 11



Brake Gain Controller

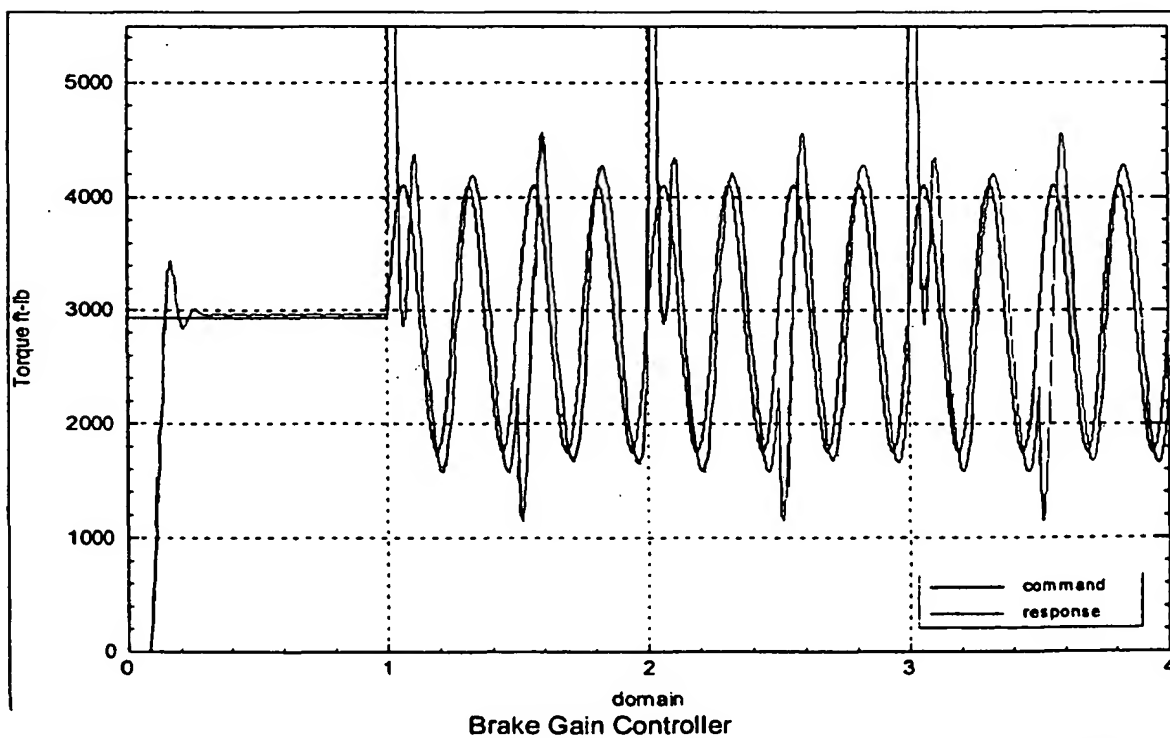
FIG. 12



PRIOR ART

PID Controller

FIG. 13



Brake Gain Controller

FIG. 14



